



## OWNER'S MANUAL *Model Number*

700457-2 Subframe with Winch  
700458-1 Compact Drive Mechanism  
700459-1 Northeast Drive Mechanism



# ***BERCO***

## ***Subframe with Electric Lift & Drive Mechanism***

for

## ***HUSQVARNA, ARIENS, POULAN, DIXON & WEEDEATER***

### ***tractors***

\* ASSEMBLY

\* REPAIR PARTS

\* OPERATION

\* MAINTENANCE

### **CAUTION:**

**READ & FOLLOW ALL SAFETY RULES & INSTRUCTIONS BEFORE  
OPERATING YOUR EQUIPMENT**



# LIMITED WARRANTY

## Conditions and Products Covered:

BERCOMAC guarantees any part of the product or accessory manufactured by BERCOMAC and found in the reasonable judgment of BERCOMAC to be defective in material and or workmanship will be repaired or replaced by an authorized dealer without charge up to our maximum labor rates and pre-established times. For replacement parts only standard ground freight services are covered. This warranty extends to the original retail purchaser only and is not transferable to any subsequent purchasers.

## Warranty Period

(from date of the original retail purchase)

- Residential use: 1 year
- Semi-commercial, professional or rental use: 90 days

Exceptions Noted Below; the following items are guaranteed by the original manufacturer and have their own warranty, conditions and limited time:

- Tire Chains: 90 days
- Engines: Will vary as per the manufacturer  
Please refer to the engine manufacturer's warranty statement included with the unit. BERCOMAC is not authorized to handle warranty adjustments on engines.

## Items and Conditions NOT Covered:

This warranty does not cover the following:

- Pick-up or delivery charges or in-home services fees.
- Any damage or deterioration of the unit, parts and or finish of these due to normal use, wear and tear, or exposure.
- Cost of regular use or maintenance service or parts, such as gas, oil, lubricants, tune-up parts, and adjustments.
- Any part or accessory which has been altered, modified, misused, neglected, accidentally damaged or not properly installed, maintained, stored or repaired not in accordance with the instructions in the owner's manual.
- Repair due to normal wear and or any wear items such as shear pins, bolts, belts, etc.
- Expedited freight fee services for replacement parts.
- Shear bolts and shear pins are to be considered as a preventive measure not as an assured protection, any damages resulting from the lack of shear bolts breakage are not covered.

NOTE: All warranty work must be performed by an authorized dealer using original (manufacturer) replacement parts.

## Owner's Responsibilities:

BERCOMAC's defective equipment or part must be returned to an authorized dealer within the warranty period for repairs. In the event that defective merchandise must be returned to manufacturer for repairs, freight fees are prepaid and a written authorization from BERCOMAC must be obtained by dealer prior to the shipment. This warranty extends only to equipment operated under normal conditions. To validate a warranty claim, it is the user's responsibility to maintain and service the unit as specified in the owner's manual or to have the unit serviced at their dealer at their expense.

## General Conditions:

The sole liability of BERCOMAC with respect to this warranty shall be strictly and exclusively repair and replacement as mentioned herein. BERCOMAC shall not have any liability for any other costs, loss or damage, including but not limited to, any incidental or consequential loss or damage.

In particular, without being limited to, BERCOMAC shall have no liability or responsibility for:

- Travel time, overtime, after hours time or other extraordinary repair charges or relating to repairs and or replacements outside of normal business hours.
- Rental of like or similar replacement equipment during the period of any, repair or replacement work.
- Any communicating or travel charges.
- Loss or damage to person or property other than that covered by the terms of this warranty.
- Any claims for lost revenue, lost profit or any similar costs as a result of damage or repair.
- Attorney's fees.

BERCOMAC's responsibility in respect to claims is limited to making the required repairs or replacement without charge up to our maximum labor rates and pre-established times and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any product or accessory.

This warranty gives you specific legal rights. You may also have other rights, which vary from state to state.

NOTE: Bercomac reserves the right to change or improve the design of any part or accessory without assuming any obligation to modify any product previously manufactured.

## Instructions for Obtaining Warranty Services:

Contact dealer where equipment was purchased or any other BERCO service dealer to arrange service at their dealership. To locate a dealer convenient to you, access our website at [www.bercomac.com](http://www.bercomac.com). Don't forget to bring your proof of purchase (sales receipt) to the BERCOMAC dealer.

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# INTRODUCTION

## TO THE PURCHASER

This new accessory was carefully designed to give years of dependable service. This manual has been provided to assist in the safe operation and servicing of your attachment.

**NOTE:** All photographs and illustrations in the manual may not necessarily depict the actual models or attachment, but are intended for reference only and are based on the latest product information available at the time of publication.

Familiarize yourself fully with the safety recommendations and operating procedures before putting the machine to use. Carefully read, understand and follow these recommendations and insist that they be followed by those who will use this attachment.



**THIS SAFETY ALERT SYMBOL IDENTIFIES AN IMPORTANT SAFETY MESSAGE IN THIS MANUAL THAT HELPS YOU AND OTHERS AVOID PERSONAL INJURY OR EVEN DEATH. DANGER, WARNING, AND CAUTION ARE SIGNAL WORDS USED TO IDENTIFY THE LEVEL OF HAZARD. HOWEVER, REGARDLESS OF THE HAZARD, BE EXTREMELY CAREFUL.**

**DANGER:** Signals an extreme hazard that will cause serious injury or death if recommended precautions are not followed.

**WARNING:** Signals a hazard that may cause serious injury or death if the recommended precautions are not followed.

**CAUTION:** Signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed.

Record your attachment serial number and purchase date in the section reserved below (there is no serial number on the subframe). Your dealer requires this information to give you prompt, efficient service when ordering replacement parts. Use only genuine parts when replacements are required.

If warranty repairs are required please present this registration booklet and original sales invoice to your selling dealer for warranty service.

**This manual should be kept for future reference.**

**Please check if you have received all the parts for your kit with the list of the bag and the list of the box.**

**SERIAL NUMBER :**  
(IF APPLICABLE)

\_\_\_\_\_

**MODEL NUMBER:**

\_\_\_\_\_

**PURCHASE DATE :**

\_\_\_\_\_



## SAFETY PRECAUTIONS



Careful operation is your best insurance against an accident. Read this section carefully before operating the vehicle and accessory. This accessory is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury. All operators, no matter how experienced they may be, should read this and other manuals related to the vehicle and accessory before operating. It is the owner's legal obligation to instruct all operators in safe operation of the accessory.

### **GLOSSARY:**

In this manual, right and left sides are determined by sitting on the seat of the vehicle facing forward.

In this manual, "accessories" means attachments (snowblower, rotary broom, blade etc.) that you install on the vehicle (lawn tractors, A.T.V. s etc).

### **TRAINING:**



This symbol, "Safety Alert Symbol", is used throughout this manual and on the accessory's safety labels to warn of the possibility of serious injury. Please take special care in reading and understanding the safety precautions before operating the vehicle and accessory.

1. Read this owner's manual carefully. Be thoroughly familiar with the controls and proper use of the vehicle and accessory. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate the vehicle nor the accessory. Never allow adults to operate the vehicle nor the accessory without proper instructions.
3. No one should operate the vehicle nor the accessory while intoxicated or while taking medication that impairs the senses or reactions.
4. Keep the area of operation clear of all people, particularly small children and pets.

### **PREPARATION:**

1. Thoroughly inspect the area where the accessory is to be used and remove door mats, all foreign objects and the like.
2. For motorized accessories, disengage all clutches and shift into neutral before starting engine.
3. Do not operate the accessory without wearing adequate winter outer garments. Avoid loose fitting clothing that can get caught in moving parts. Wear footwear that will improve footing on slippery surfaces.

4. Handle fuel with care, it is highly flammable.

- a) Use approved fuel container.
- b) Never add fuel to a running engine or hot engine.
- c) Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
- d) Never fill containers inside a vehicle, or on a truck or a trailer bed with a plastic liner. Always place containers on the ground, away from your vehicle, before filling.
- e) When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
- f) Keep the nozzle in contact with the rim of the fuel tank or container opening at all times, until refueling is complete. Do not use a nozzle lock-open device.
- g) Replace fuel cap securely and wipe up spilled fuel.
- h) If fuel is spilled on clothing, change clothing immediately.

5. Never attempt to make any adjustments while the engine (motor) is running (except when specifically recommended by manufacturer).
6. Let the vehicle and accessory adjust to outdoor temperatures before using.
7. Never use an accessory without proper guards, plates, or other safety protective devices in place
8. Always make sure to wear the appropriate safety equipment required (glasses, muffs, mask...) for each type of product. See operation section.
9. Always make sure of having safe traction on the vehicle by using the recommended accessories (chains, A.T.V. tracks, counterweights...). See operation section.
10. Always make sure the all components are correctly installed. (driveline securely attached and locked at both ends, belts properly installed...)
11. **Never modify the accessory or any part without the written consent from the manufacturer.**



## SAFETY PRECAUTIONS



### OPERATION:

1. Do not put hands or feet near, under or inside rotating parts.
2. Exercise extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
3. After striking a foreign object, stop the engine (motor), disconnect the wire from the spark plug(s) and keep wire away to prevent accidental starting. Thoroughly inspect the accessory for any damage and repair damage before restarting and using the accessory.
4. If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
5. Take all possible precautions when leaving the vehicle unattended. Disengage the power take-off, lower the attachment, place the transmission into neutral, set the parking brake, stop the engine and remove the contact key.
6. Do not run the engine indoors, except when starting the engine and for transporting in or out of the building. Do not operate or let motor run in a storage area without ventilation because gas contains carbon monoxide which is odorless, colorless and can cause death.
7. Never use the accessories across the face of slopes, go from top to bottom. Exercise extreme caution when using equipment on slopes. Do not attempt to clear a steep slope.
8. Never tolerate bystanders in the working zone. Never use an accessory in the direction of bystanders, it might throw gravel or debris that can hurt people or damage property.
9. Never operate the accessory at high transport speeds on slippery surfaces. Use care when backing up.
10. Do not carry passengers.
11. Disengage power to the accessory when it is transported or not in use.
12. Never operate the accessory without good visibility or light.

13. Keep the accessory away from heat sources or flames.

### MAINTENANCE AND STORAGE

1. When cleaning, repairing or inspecting the vehicle and accessory, make certain that all moving parts have stopped. For gasoline engine, disconnect wire from the spark plug(s) and keep wire away to prevent accidental starting.
2. Check all the bolts and components at frequent intervals to make sure that they are properly tightened.
3. Never store a motorized accessory with fuel in the fuel tank inside a building where ignition sources are present such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
4. Always refer to the owner's manual when you store the accessory and vehicle for a prolonged or an unspecified length of time.
5. Maintain or replace safety and instruction labels, as necessary.
6. For winter accessories, (if applicable), let the engine run for a few minutes after clean snow in order to prevent the rotary parts from freezing.
7. Inspect the vehicle's and accessory's air filter (if applicable) every day. Clean it or replace it as necessary. Change the oil more often when working in dusty conditions. See the vehicle's and accessory's owner's manual.



**THIS SYMBOL MEANS  
DANGER !  
BECOME ALERT !  
YOUR SAFETY IS INVOLVED !**



## SAFETY DECALS



REPLACE IF DECALS ARE DAMAGED  
SEE PARTS BREAKDOWN FOR DECAL LOCATION

DECAL #105133



To avoid serious injuries:  
Keep hands away from the hot surface.

# ASSEMBLY

**IMPORTANT: TORQUE ALL BOLTS ACCORDING TO TORQUE SPECIFICATION TABLE WHEN STATED: TIGHTEN FIRMLY.**

**THE WINCH KIT IS TO BE USED ONLY TO LIFT BERCO ACCESSORIES, ANY OTHER USE MAY CAUSE DAMAGE TO THE VEHICLE.**

This subframe may be used to install different attachments (see attachments page). Once installed, it may remain permanently on your vehicle.

**NOTE:**It is not necessary to remove mower deck at this step.

## TOOLS REQUIRED:

Wrenches: 5/16, 7/16, 9/16, 1/2, 10mm  
Ratchet  
Sockets: 9/16, 1/2  
Pliers  
Square head screwdriver: #2  
1 wrench (for the nuts on the battery posts of the vehicle)

## Optional tools according to the year of the vehicle:

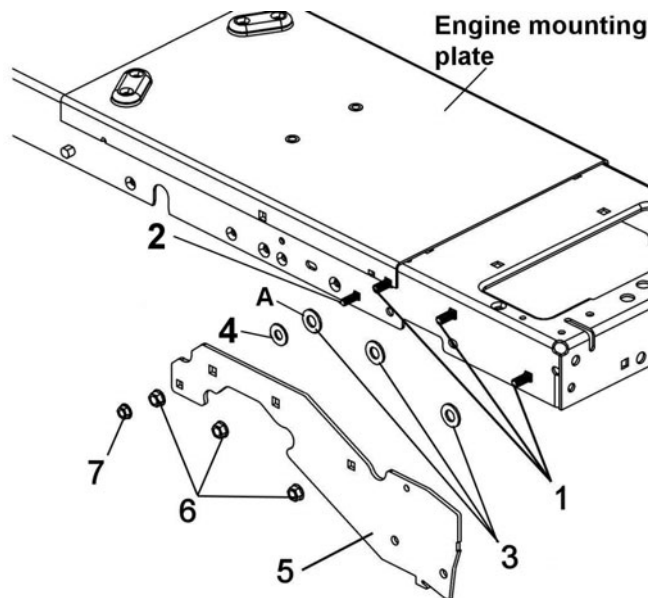
Drill  
Bit: 13/32  
Punch  
Hammer

## STEP 1

### SUBFRAME INSTALLATION:

**Refer to parts breakdown section for parts identification.**

| Install the supports (item 5) on each side of the vehicle.                                                                                                     |                                  |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|
| Item #                                                                                                                                                         | Description                      | Action                           |
| 1                                                                                                                                                              | Carriage bolt, 3/8 x 1" (qty 6)  | Insert as shown.                 |
| 2                                                                                                                                                              | Carriage bolt, 5/16 x 1" (qty 2) | Insert as shown.                 |
| *3                                                                                                                                                             | Flat washer 1/2", (qty 6)        | See*                             |
| 4                                                                                                                                                              | Flat washer 7/16", (qty 2)       | Insert on carriage bolt (item 2) |
| 5                                                                                                                                                              | Support (qty 2)                  | Install on the bolts as shown.   |
| 6                                                                                                                                                              | Flange nut 3/8", (qty 6)         | Do not tighten now.              |
| 7                                                                                                                                                              | Flange nut 5/16", (qty 2)        | Do not tighten now.              |
| *For tractors with a engine mounting plate use only two washers. Do not use washer A.<br>*For tractors without an engine mounting plate use all three washers. |                                  |                                  |

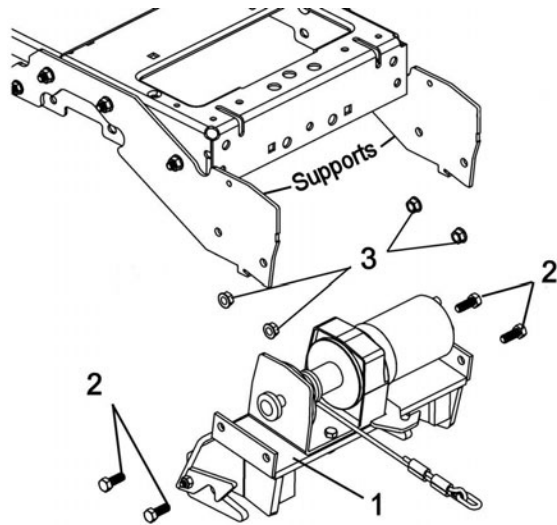


Install the supports

# ASSEMBLY

## Install the female hitch (item 1)

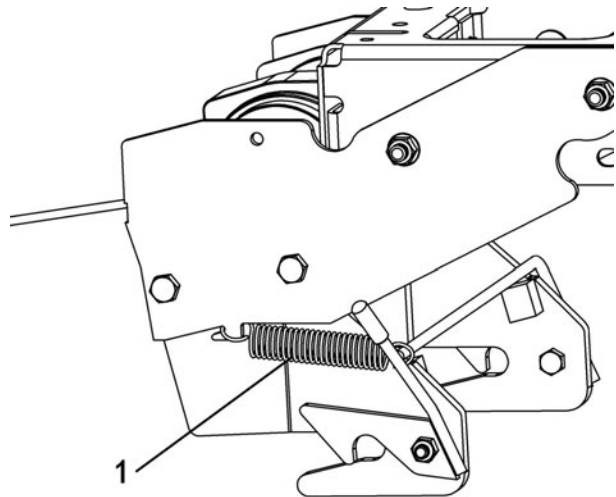
| # Item | Description               | Action                            |
|--------|---------------------------|-----------------------------------|
| 1      | Female hitch              | Install between the two supports. |
| 2      | Hex bolt 3/8 x 1" (qty 4) | Insert as shown.                  |
| 3      | Flange nut 3/8" (qty 4)   | Tighten all the nuts firmly.      |



Install the female hitch between the two supports

## Install the spring (item 1)

| # Item                                   | Description | Action                                    |
|------------------------------------------|-------------|-------------------------------------------|
| 1                                        | Spring      | Install the spring on the frame as shown. |
| <b>NOTE:</b> The latch must move freely. |             |                                           |



Install the spring as shown

# ASSEMBLY

**NOTE: Use these same instructions for both sides of tractor.**

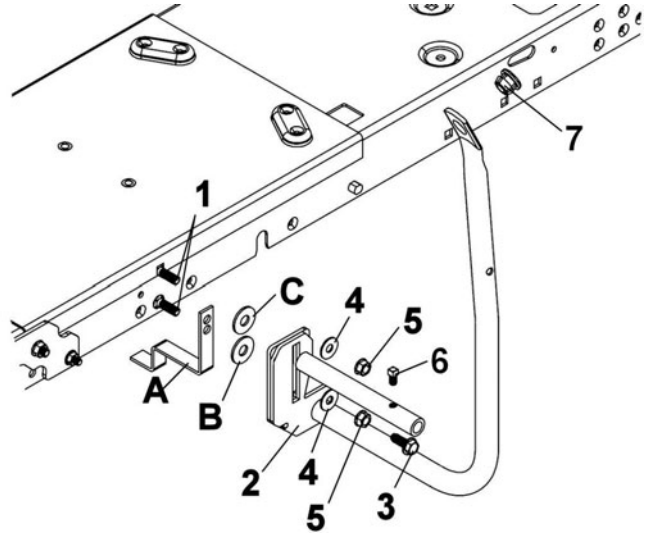
**Manual Clutch:** Install the new belt guides (item A) that are included with the drive mechanism on the bottom carriage bolt (item 1). Place a 1/2" flat washer (items B & C) over the belt guide and the top carriage bolt. Continue with the handle support installation.

**Electric Clutch:** Do not install belt guides. Place a 1/2" flat washer (item B) over the bottom carriage bolt. Continue with the handle support (left side) installation and cab support (right side).

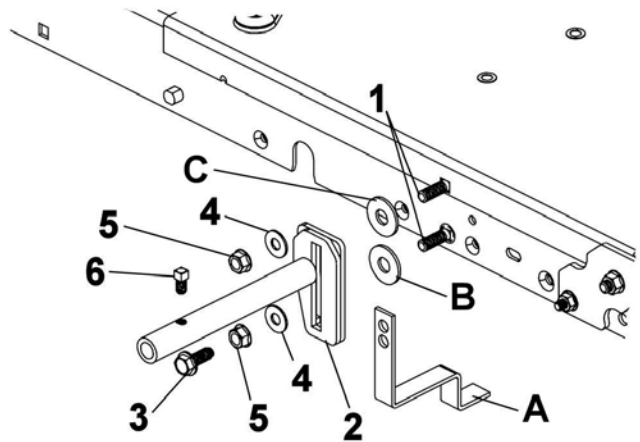
Install the handle support (item 2) on the left side and the cab support on the right side as shown.

| # Item | Description                       | Action                            |
|--------|-----------------------------------|-----------------------------------|
| 1      | Carriage bolt 3/8 x 1" (qty 4)    | Insert the bolts as shown.        |
| 2      | Handle / cab support              | Install as shown.                 |
| **3    | Thread cutting screw 3/8 x 1"     | See **                            |
| 4      | Flat washer 3/8" (qty 4)          | Install as shown.                 |
| 5      | Flange nut 3/8" (qty 4)           | Tighten the nuts.                 |
| 6      | Square head set screw 5/16 x 1/2" | Insert in the hole of the handle. |
| 7      | Plastic grommet                   | Insert as shown.                  |

\*\* Use this screw if the bottom hole is threaded.



Install the handle support on left side

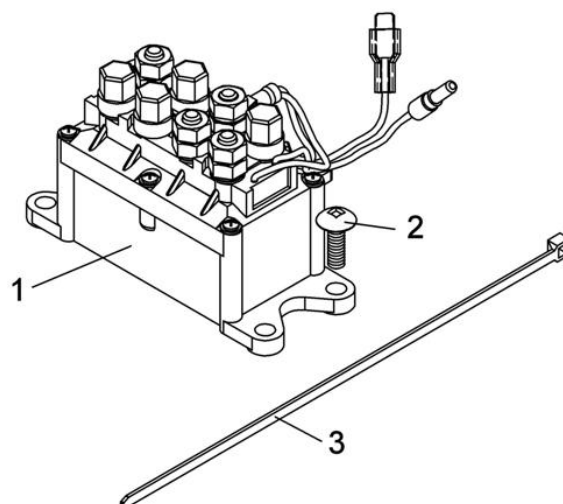


Install the cab support on right side

# ASSEMBLY

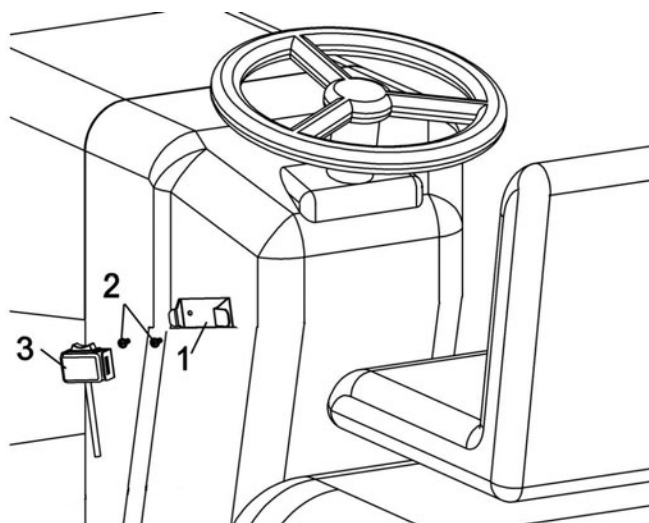
## STEP 2: INSTALLATION OF THE CONTROL ASSEMBLY

| Install the relay (item 1).                                         |                                |                                 |
|---------------------------------------------------------------------|--------------------------------|---------------------------------|
| # Item                                                              | Description                    | Action                          |
| 1                                                                   | Relay                          | Install in an appropriate area. |
| 2                                                                   | Metal screw #12 x 3/4" (qty 4) | Secure relay in place.          |
| *3                                                                  | Nylon tie wrap 8" (qty 4)      | See *                           |
| *If necessary use the nylon tie wraps to secure the relay in place. |                                |                                 |
| ** Install in a sheltered place away from bad weather.              |                                |                                 |



Install the relay

| Install the control support (item 1) |                               |                                 |
|--------------------------------------|-------------------------------|---------------------------------|
| # Item                               | Description                   | Action                          |
| 1                                    | Control support               | Install in an appropriate area. |
| 2                                    | Metal screw #8 x 1/2" (qty 2) | Secure the support in place.    |
| 3                                    | Winch control                 | Insert in the support.          |



Install the support and winch control

### IMPORTANT

To prolong the winch cable's life, release the winch control switch as soon as the accessory touches the ground. This will keep the cable from tangling up which causes premature wear.

# ASSEMBLY

## CONNECTING THE WIRES

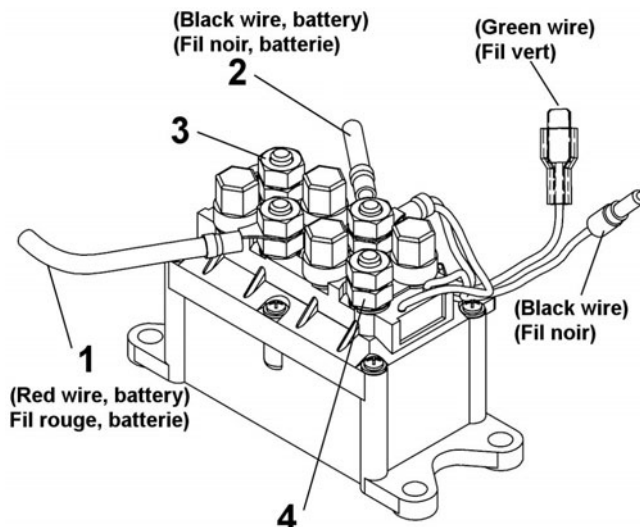
**NOTE:** The posts on the relay are identified by numbers. (1-2-3-4).

Install the wires from the winch on the posts of the relay.

Red wire (+) on post #3.

Black wire (-) on post #4.

Connect the red wire from the winch (limit switch) with the green wire from the relay.



Connect the wires

## IDENTIFY THE IGNITION WIRE:

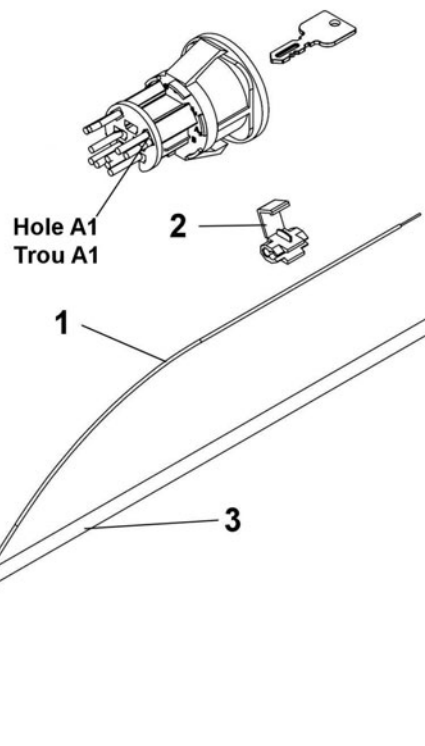
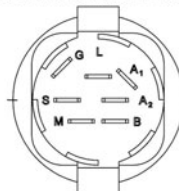
Place the clip of the Hi / Low tester on the negative post (-) on the battery or a metal surface without any paint.

Turn the ignition key to the position: Accessory.

Insert the tip of the tester in a hole at the back of the starter (switch) make sure to touch the metal part of the wire (on most tractors, it is the A1 terminal on the ignition switch that is used for accessories. Before connection, verify with HI/LOW tester).

If the tester's light turns on, turn the ignition key to the position, Off. The light must turn off. You have identified the ignition wire, if not repeat the operation on another wire.

View behind the switch  
Vue derrière le commutateur



## INSTALL THE CONTROL WIRE:

Join the ignition wire and the red wire from the winch control (item 1) with the instant connector (item 2).

Connect the black wire of the winch control (item 3) to the black wire on the relay.

Connect the green wire of the winch control (item 3) with the red wire of the winch (limit switch).

Connect the ignition wire

## ASSEMBLY



### CAUTION



#### FOR YOUR SECURITY:

Read and follow the safety precautions for the battery in the vehicle's manual.

#### CONNECT THE WIRES ON THE BATTERY:

Connect the wires from the relay to the vehicle's battery.

The red wire (+) on the positive post of the battery (item 1).

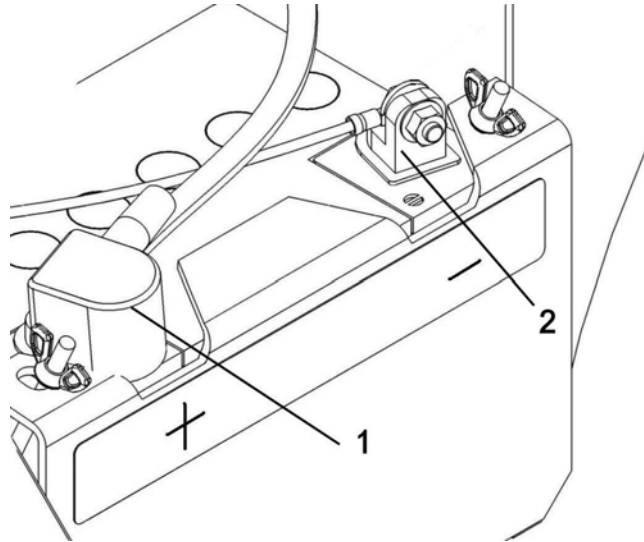
The black wire (-) on the negative post of the battery (item 2).

Make sure to tighten the nuts on the posts.

#### TIE ALL THE WIRES:

**NOTE:** Make sure the wires from the control assembly do not interfere with anything on the tractor nor come into contact with any heating, electrical or removable elements of the tractor.

Tie the wires with four nylon tie wraps included in the kit.



Connect the relay wires to the battery

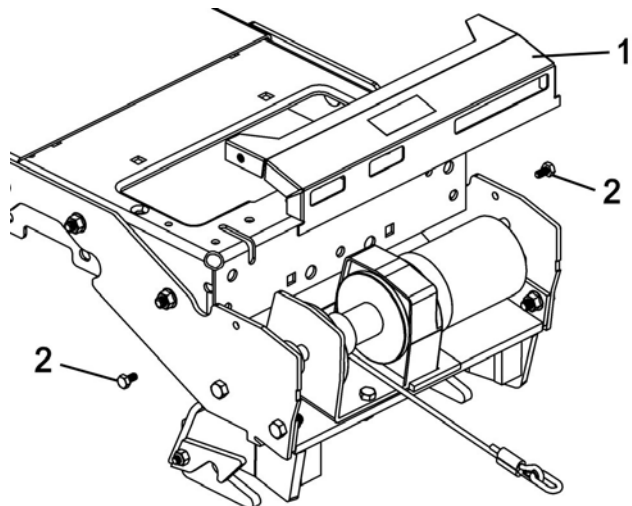
Install the heat shield (item 1).

| # Item | Description                  | Action            |
|--------|------------------------------|-------------------|
| 1      | Heat shield                  | Install as shown. |
| 2      | Hex bolts 1/4 x 1/2" (qty 2) | Tighten firmly.   |

#### VERY IMPORTANT:

Make sure the cable winds up and unrolls as shown in the figure (cable under the spool).

**If the winch cable does not wind up from the bottom of spool as shown, the limit switch will not work and may cause damage to the subframe, winch and accessory.**



Install the heat shield

# ASSEMBLY

## STEP 3: DRIVE MECHANISM INSTALLATION:



### WARNING



#### TO PREVENT INJURIES:

Stop the motor.

Apply parking brake.

Remove the ignition key.

Disconnect the wire from the spark plug(s) and keep away from spark plug(s) to prevent accidental starting.

**NOTE: You must remove mower deck to install the drive mechanism.**

Install the support (item 2) on each side.

| # Item | Description                      | Action           |
|--------|----------------------------------|------------------|
| 1      | Carriage bolt 3/8 x 3/4" (qty 4) | Insert as shown. |
| 2      | Support (qty 2)                  | See*             |
| 3      | Flange nut 3/8" (qty 4)          | Tighten firmly.  |

\*Choose the appropriate holes in the supports and make sure that there is no interference between the pin and the parts of the vehicle.



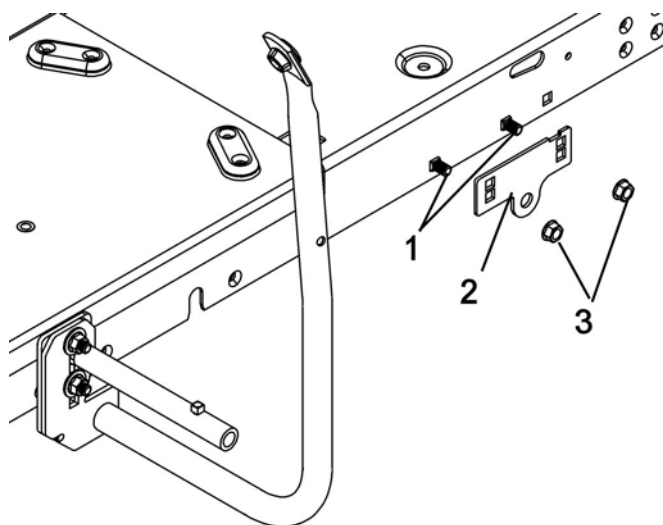
### WARNING



#### TO PREVENT INJURIES:

It is the person who installs the drive mechanism responsibility to make sure that when the clutch is disengaged that all moving parts stop.

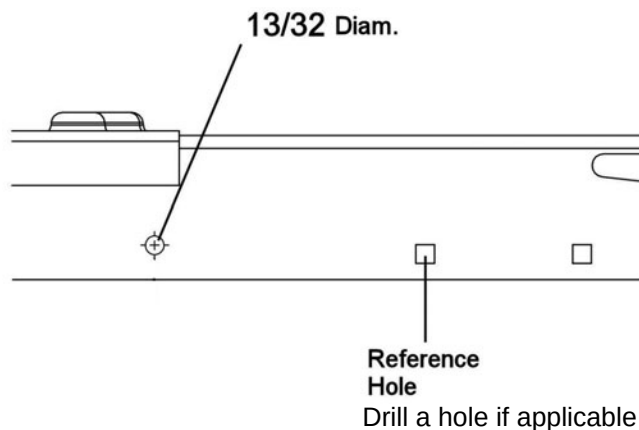
For more information, do not hesitate to contact the technical support.



Install the supports

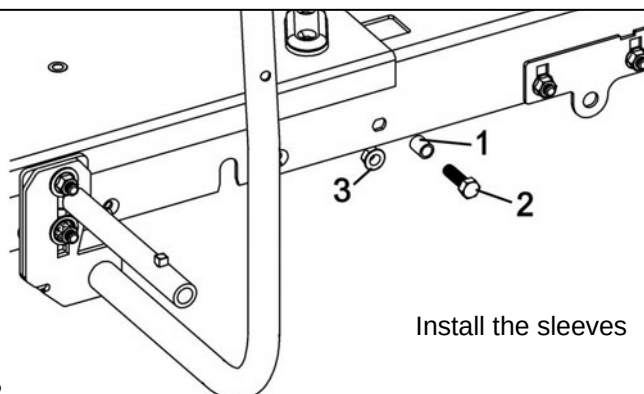
**The next two instructions are for vehicles that do not have pins that are used as supports for the mower deck.**

Use the drilling template to drill a hole on each side of the vehicle.



Install the sleeve (item 1) on each side.

| # Item | Description                   | Action                |
|--------|-------------------------------|-----------------------|
| 1      | Sleeve (qty 2)                | Install as shown.     |
| 2      | Hex bolt 3/8 x 1 1/4" (qty 2) | Insert in the sleeve. |
| 3      | Flange nut 3/8" (qty 2)       | Tighten firmly.       |

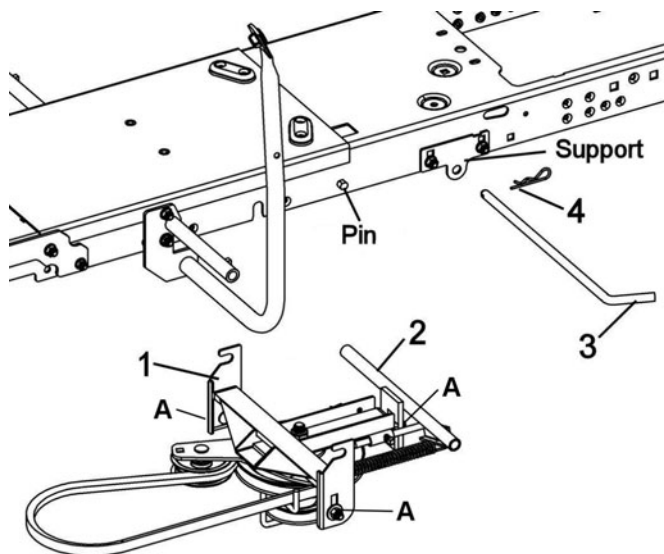


Install the sleeves

## ASSEMBLY

Install the drive mechanism (item 1).

| # Item                                                                                              | Description                      | Action                         |
|-----------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------|
| 1                                                                                                   | The front end of drive mechanism | Hook on the pins.              |
| 2                                                                                                   | The back end of drive mechanism  | Install between the supports.  |
| 3                                                                                                   | Pin                              | Insert as shown.<br>*See note. |
| 4                                                                                                   | Hair pin                         | Secure the pin.                |
| <b>*NOTE:</b> If the pin (item 3) is difficult to slide in the supports, loosen the nuts ( item A). |                                  |                                |



Install the drive mechanism

### For tractors with Electric Clutch:

Install the belt on the engine pulley of the vehicle.

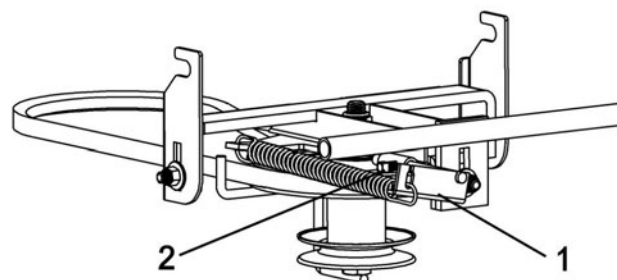
Check the tension on the spring.

If necessary, adjust the tension by moving the adjustment rod (item 1) and tighten the set screw (item 2).

### **\*For tractors with a 5 1/2" engine pulley:**

A shorter drive belt may be necessary to achieve the proper tension.

Belt A-51 (105190) instead of a A-52 (104847) or  
Belt A-55 (105191) instead of a A-56 (104848)



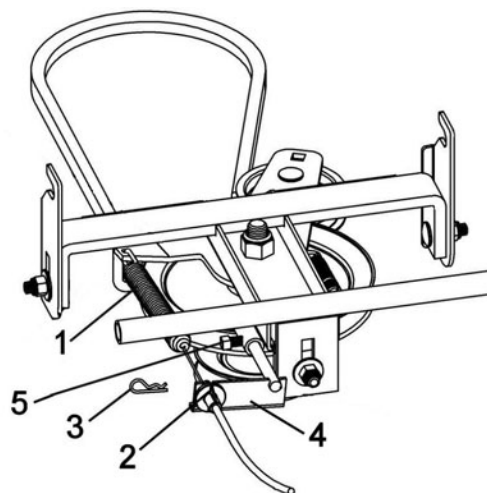
No modifications to be done

# ASSEMBLY

**For tractors with Manual Clutch activated by a cable:**

| Install the tractor's manual clutch cable .<br>* Remove the spring. |                                   |                                                                |
|---------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------|
| # Item                                                              | Description                       | Action                                                         |
| 1                                                                   | Spring from the clutch cable      | Install as shown in the hole on the tension pulley.            |
| 2                                                                   | Clutch cable                      | Insert in the slot on the adjustment rod.                      |
| 3                                                                   | Hair pin 2mm                      | Secure the cable.                                              |
| 4                                                                   | Adjustment rod                    | Slide towards the back to apply enough tension on the spring.* |
| 5                                                                   | Square head set screw 5/16 x 1/2" | Secure the adjustment rod.                                     |

Install the belt on the engine pulley of the vehicle.  
Check the tension on the spring.  
If necessary, adjust the tension by moving the adjustment rod and tighten the set screw.



Install the manual clutch cable

**\*For tractors with a 5 1/2" engine pulley:**

A shorter drive belt may be necessary to achieve the proper tension.

Belt A-51 (105190) instead of a A-52 (104847) or

Belt A-55 (105191) instead of a A-56 (104848)

## VERIFICATION OF THE BELT AND PULLEY ALIGNMENT:



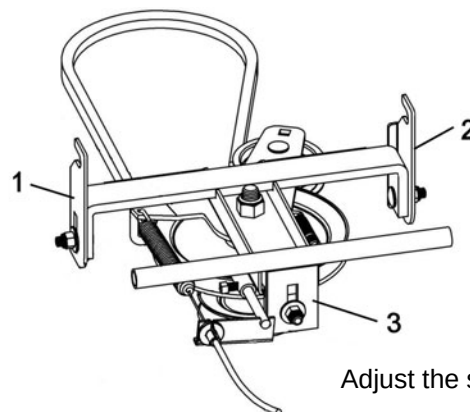
### WARNING



**TO PREVENT INJURIES:**  
do this verification when the engine of the vehicle is not running.

**IMPORTANT:** Adjust the height of the three supports (items 1, 2 and 3) to make sure the drive mechanism pulley (item 4) is aligned with the engine pulley (item 5) more or less 1/8".

If applicable, you can remove or add a flat washer on the tension pulley (item 6) for a better adjustment. Engage and disengage the clutch a few times and make sure the belt does not touch the belt guide in any place when the drive mechanism is engaged.



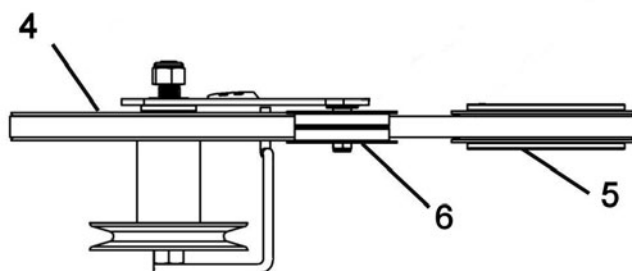
Adjust the supports



### WARNING



**TO PREVENT INJURIES:**  
It is the person who installs the drive mechanism responsibility to make sure that when the clutch is disengaged that all moving parts stop.  
For more information, do not hesitate to contact the technical support.



Adjust the pulleys

## OPERATION & MAINTENANCE



### CAUTION



Read the vehicle Owner's Manual carefully. Be thoroughly familiar with the controls & proper use of the attachment. Know how to stop the attachment quickly.

#### IMPORTANT:

THE WINCH KIT IS TO BE USED ONLY TO LIFT BERCO ACCESSORIES, ANY OTHER USE MAY CAUSE DAMAGE TO THE VEHICLE.

### CONTROLS

#### IMPORTANT:

In order to avoid draining the battery of the vehicle, always start the engine before using the winch.

#### THE WINCH CONTROL SWITCH

Press on the winch control switch to lift or lower the accessory to the ground.

There is a limit switch stopper that limits the lifting.

To prolong the winch cable's life, release the winch control switch as soon as the accessory touches the ground. This will keep the cable from tangling up, causing premature wear of the cable.

### MAINTENANCE

- a) Check mounting bolts at frequent intervals for proper tightness to be sure equipment is in safe working condition.
- b) Apply oil at all pivot points.
- c) To prolong the life span of the winch, make sure the limit switch works well.

### BELT REPLACEMENT

#### Belt for the accessories:

SEE ATTACHMENT OWNER'S MANUAL (SNOWBLOWER AND BROOM ) FOR REPLACING INSTRUCTIONS.

#### Drive Mechanism Belt:

- a) Dismount the drive mechanism.
- b) Remove the bolt which retains the tension pulley.
- c) Replace the belt and re-install the tension pulley. Before tightening make sure the belt guide does not touch the belt at any time.
- d) Re-install the drive mechanism.
- e) Check the alignment of the belt that joins the drive mechanism to the engine pulley.

### VERIFY TIRE PRESSURE:

Check and adjust tractor tire pressure as follows:

Front tires: 14-15 psi

Back tires: 7-8 psi

Tire pressure must be even on both sides of the tractor.

## DISMOUNTING & STORAGE

### DISMOUNTING

SEE ATTACHMENT OWNER'S MANUAL (SNOWBLOWER, BROOM AND BLADE) FOR DISMOUNTING INSTRUCTIONS.

- a) Dismount the attachment.
- b) Remove the rear counterweight when you remove the front attachment (if applicable).
- c) Remove the belt from the engine pulley.
- d) Dismount the drive mechanism by supporting it in hand and removing the hair pin and the pin. Carefully lower to the ground. Remove the V-belt from engine pulley.  
Manual clutch activated by cable:  
Unhook cable shield by removing the hair pin. Unhook spring. Pull out drive mechanism from underneath tractor.
- e) You may leave the subframe on tractor all year long or remove it if preferred.
- f) Reinstall mower if needed.

### STORAGE

- a) Clean and paint all parts from which paint has worn.
- b) Apply oil at all pivot points.
- c) Inspect and replace all defective parts before using again.

# TROUBLESHOOTING

\* Please refer to parts breakdown section for parts identification.

| PROBLEM                                               | POSSIBLE CAUSES                                        | CORRECTIVE ACTION                                           |
|-------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|
| Winch runs backwards.                                 | Winch wires reversed.                                  | Recheck wiring.                                             |
|                                                       | Switch wires reversed.                                 | Recheck wiring.                                             |
|                                                       | Switch installed incorrectly.                          | Check switch installation.                                  |
|                                                       | Battery wires reversed.                                | Recheck wiring.                                             |
|                                                       | Winch cable is not winded up from the bottom of spool. | Wind winch cable from underneath.                           |
| Winch will not operate or runs in one direction only. | Vehicle's ignition switch is at OFF position.          | Turn vehicle's ignition switch at ON position.              |
|                                                       | Broken wires or bad connection.                        | Check for poor connections.                                 |
|                                                       | Control switch is inoperative.                         | Replace control switch.                                     |
|                                                       | Relay or breaker is damaged.                           | Replace the relay or breaker.                               |
|                                                       | Limit switch is damaged.                               | Replace limit switch.                                       |
|                                                       | Winch is damaged.                                      | Replace or repair winch.                                    |
| Winch runs but with insufficient power or line speed. | Weak battery.                                          | Recharge or replace battery. Check charging system          |
|                                                       | Poor battery connection.                               | Check battery terminals for corrosion. Clean when required. |
|                                                       | Winch is damaged.                                      | Replace or repair winch.                                    |

| HOW TO KNOW                          | POINTS TO CHECK                                                                                                                                            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poor connections.                    | Recheck wiring with the owner's manual                                                                                                                     |
| HI/LOW voltage tester does not work. | Connect it on battery posts (+ and -) of a functional battery. If there is no light, the tester is damaged.                                                |
| The control switch inoperative.      | Test both connectors with HI/LOW voltage tester. If light comes ON in both positions (IN & OUT), the switch is operative.                                  |
| Relay is damaged                     | When it is working, there is a "CLICK" sound when the control switch is activated. Check connections with HI/LOW voltage tester.                           |
| Winch is damaged                     | The ultimate test is to connect the winch directly to the battery and reverse the wires to test both directions. If the winch doesn't work, it is damaged. |
| The limit switch is damaged.         | When the limit switch is pushed or stuck inside, the winch can't raise the accessory, only lower it. If not replace it.                                    |
| The breaker is damaged.              | Check the voltage on both terminals on the breaker with the HI / LOW voltage tester. If not replace.                                                       |

# TORQUE SPECIFICATION TABLE

## GENERAL TORQUE SPECIFICATION TABLE USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN

**NOTE:** These values apply to fasteners as received from supplier, dry or when lubricated with normal oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.

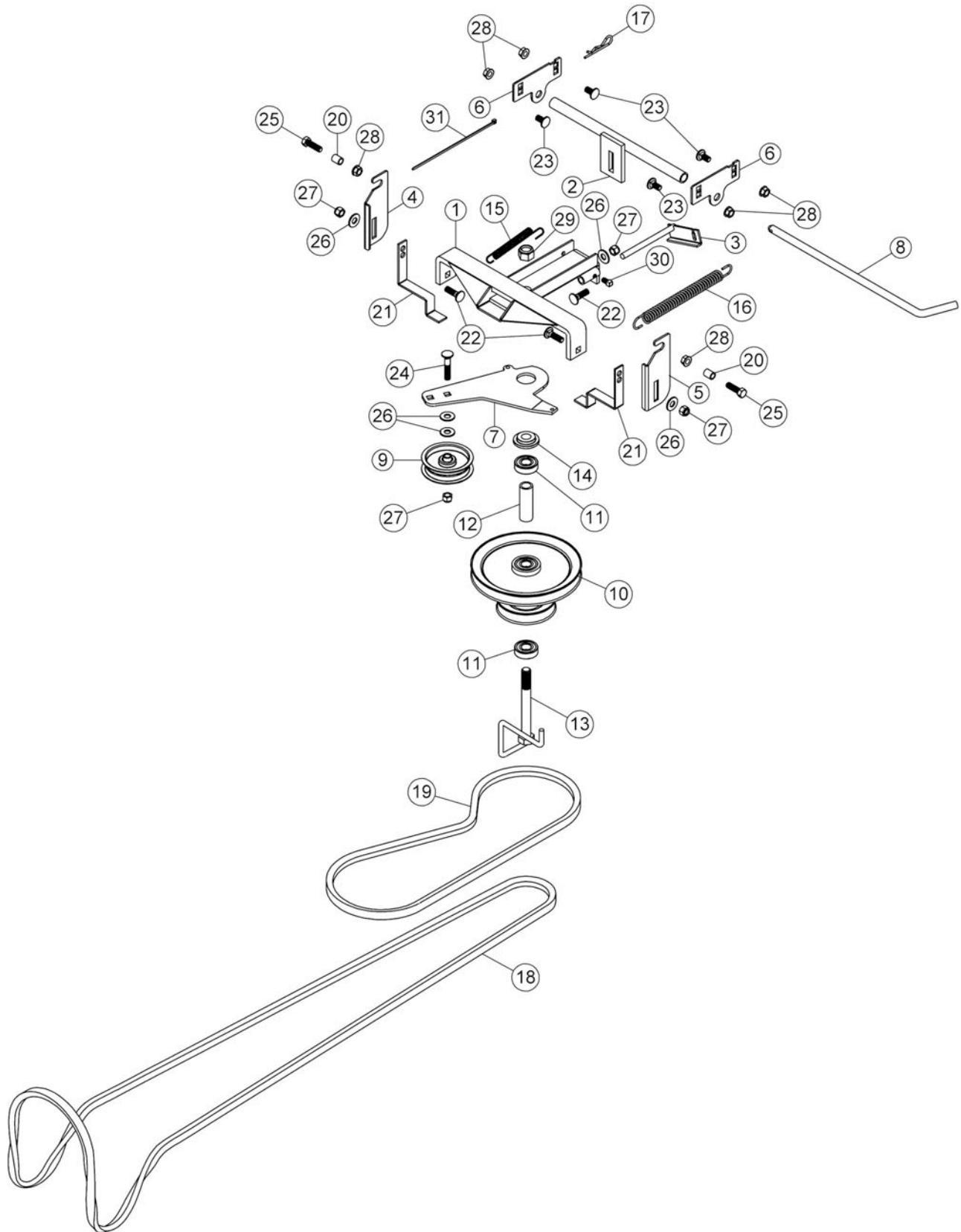
\* Thick nuts must be used with grade 8 bolts

| SEE Grade No.                                                                  |            | 2           |      |                |       | 5           |      |                |       | 8 *         |      |                |        |
|--------------------------------------------------------------------------------|------------|-------------|------|----------------|-------|-------------|------|----------------|-------|-------------|------|----------------|--------|
| BOLT HEAD IDENTIFICATION MARKS AS PER GRADE NOTE MANUFACTURING MARKS WILL VARY |            | TORQUE      |      |                |       | TORQUE      |      |                |       | TORQUE      |      |                |        |
| BOLT SIZE                                                                      |            | FOOT POUNDS |      | NEW TON-METERS |       | FOOT POUNDS |      | NEW TON-METERS |       | FOOT POUNDS |      | NEW TON-METERS |        |
| Inches                                                                         | Millimetre | Min.        | Max. | Min.           | Max.  | Min.        | Max. | Min.           | Max.  | Min.        | Max. | Min.           | Max.   |
| 1/4"                                                                           | 6.35       | 5           | 6    | 6.8            | 8.13  | 9           | 11   | 12.2           | 14.9  | 12          | 15   | 16.3           | 30.3   |
| 5/16"                                                                          | 7.94       | 10          | 12   | 13.6           | 16.3  | 17          | 20.5 | 23.1           | 27.8  | 24          | 29   | 32.5           | 39.3   |
| 3/8"                                                                           | 9.53       | 20          | 23   | 27.1           | 31.2  | 35          | 42   | 47.5           | 57    | 45          | 54   | 61             | 73.2   |
| 7/16"                                                                          | 11.11      | 30          | 35   | 40.7           | 47.4  | 54          | 64   | 73.2           | 86.8  | 70          | 84   | 94.9           | 113.9  |
| 1/2"                                                                           | 12.7       | 45          | 52   | 61             | 70.5  | 80          | 96   | 108.5          | 130.2 | 110         | 132  | 149.2          | 179    |
| 9/16"                                                                          | 14.29      | 65          | 75   | 88.1           | 101.6 | 110         | 132  | 149.2          | 179   | 160         | 192  | 217            | 260.4  |
| 5/8"                                                                           | 15.88      | 95          | 105  | 128.7          | 142.3 | 150         | 180  | 203.4          | 244.1 | 220         | 264  | 298.3          | 358    |
| 3/4"                                                                           | 19.05      | 150         | 185  | 203.3          | 250.7 | 270         | 324  | 366.1          | 439.3 | 380         | 456  | 515.3          | 618.3  |
| 7/8"                                                                           | 22.23      | 160         | 200  | 216.8          | 271   | 400         | 480  | 542.4          | 650.9 | 600         | 720  | 813.6          | 976.3  |
| 1"                                                                             | 25.4       | 250         | 300  | 338.8          | 406.5 | 580         | 696  | 786.5          | 943.8 | 900         | 1080 | 1220.4         | 1464.5 |

| METRIC BOLT TORQUE SPECIFICATIONS |           |               |             |               |             |             |               |
|-----------------------------------|-----------|---------------|-------------|---------------|-------------|-------------|---------------|
|                                   |           | COARSE THREAD |             |               | FINE THREAD |             |               |
| Size Screw                        | Grade No. | Pitch (mm)    | Foot Pounds | Newton-Meters | Pitch (mm)  | Foot Pounds | Newton-Meters |
| M6                                | 4T        | 1.00          | 3.6 - 5.8   | 4.9 - 7.9     | -           | -           | -             |
|                                   | 7T        |               | 5.8 - 9.4   | 7.9 - 12.7    |             | -           | -             |
|                                   | 8T        |               | 7.2 - 10    | 9.8 - 13.6    |             | -           | -             |
| M8                                | 4T        | 1.25          | 7.2 - 14    | 9.8 - 19      | 1.00        | 12 - 17     | 16.3 - 23     |
|                                   | 7T        |               | 17 - 22     | 23 - 29.8     |             | 19 - 27     | 25.7 - 36.6   |
|                                   | 8T        |               | 20 - 26     | 27.1 - 35.2   |             | 22 - 31     | 29.8 - 42     |
| M10                               | 4T        | 1.50          | 20 - 25     | 27.1 - 33.9   | 1.25        | 20 - 29     | 27.1 - 39.3   |
|                                   | 7T        |               | 34 - 40     | 46.1 - 54.2   |             | 35 - 47     | 47.4 - 63.7   |
|                                   | 8T        |               | 38 - 46     | 51.5 - 62.3   |             | 40 - 52     | 54.2 - 70.5   |
| M12                               | 4T        | 1.75          | 28 - 34     | 37.9 - 46.1   | 1.25        | 31 - 41     | 42 - 55.6     |
|                                   | 7T        |               | 51 - 59     | 69.1 - 79.9   |             | 56 - 68     | 75.9 - 92.1   |
|                                   | 8T        |               | 57 - 66     | 77.2 - 89.4   |             | 62 - 75     | 84 - 101.6    |
| M14                               | 4T        | 2.00          | 49 - 56     | 66.4 - 75.9   | 1.50        | 52 - 64     | 70.5 - 86.7   |
|                                   | 7T        |               | 81 - 93     | 109.8 - 126   |             | 90 - 106    | 122 - 143.6   |
|                                   | 8T        |               | 96 - 109    | 130.1 - 147.7 |             | 107 - 124   | 145 - 168     |
| M16                               | 4T        | 2.00          | 67 - 77     | 90.8 - 104.3  | 1.50        | 69 - 83     | 93.5 - 112.5  |
|                                   | 7T        |               | 116 - 130   | 157.2 - 176.2 |             | 120 - 138   | 162.6 - 187   |
|                                   | 8T        |               | 129 - 145   | 174.8 - 196.5 |             | 140 - 158   | 189.7 - 214.1 |
| M18                               | 4T        | 2.00          | 88 - 100    | 119.2 - 136   | 1.50        | 100 - 117   | 136 - 158.5   |
|                                   | 7T        |               | 150 - 168   | 203.3 - 227.6 |             | 177 - 199   | 239.8 - 269.6 |
|                                   | 8T        |               | 175 - 194   | 237.1 - 262.9 |             | 202 - 231   | 273.7 - 313   |
| M20                               | 4T        | 2.50          | 108 - 130   | 146.3 - 176.2 | 1.50        | 132 - 150   | 178.9 - 203.3 |
|                                   | 7T        |               | 186 - 205   | 252 - 277.8   |             | 206 - 242   | 279.1 - 327.9 |
|                                   | 8T        |               | 213 - 249   | 288.6 - 337.4 |             | 246 - 289   | 333.3 - 391.6 |

# PARTS BREAKDOWN

## COMPACT DRIVE MECHANISM 700458-1



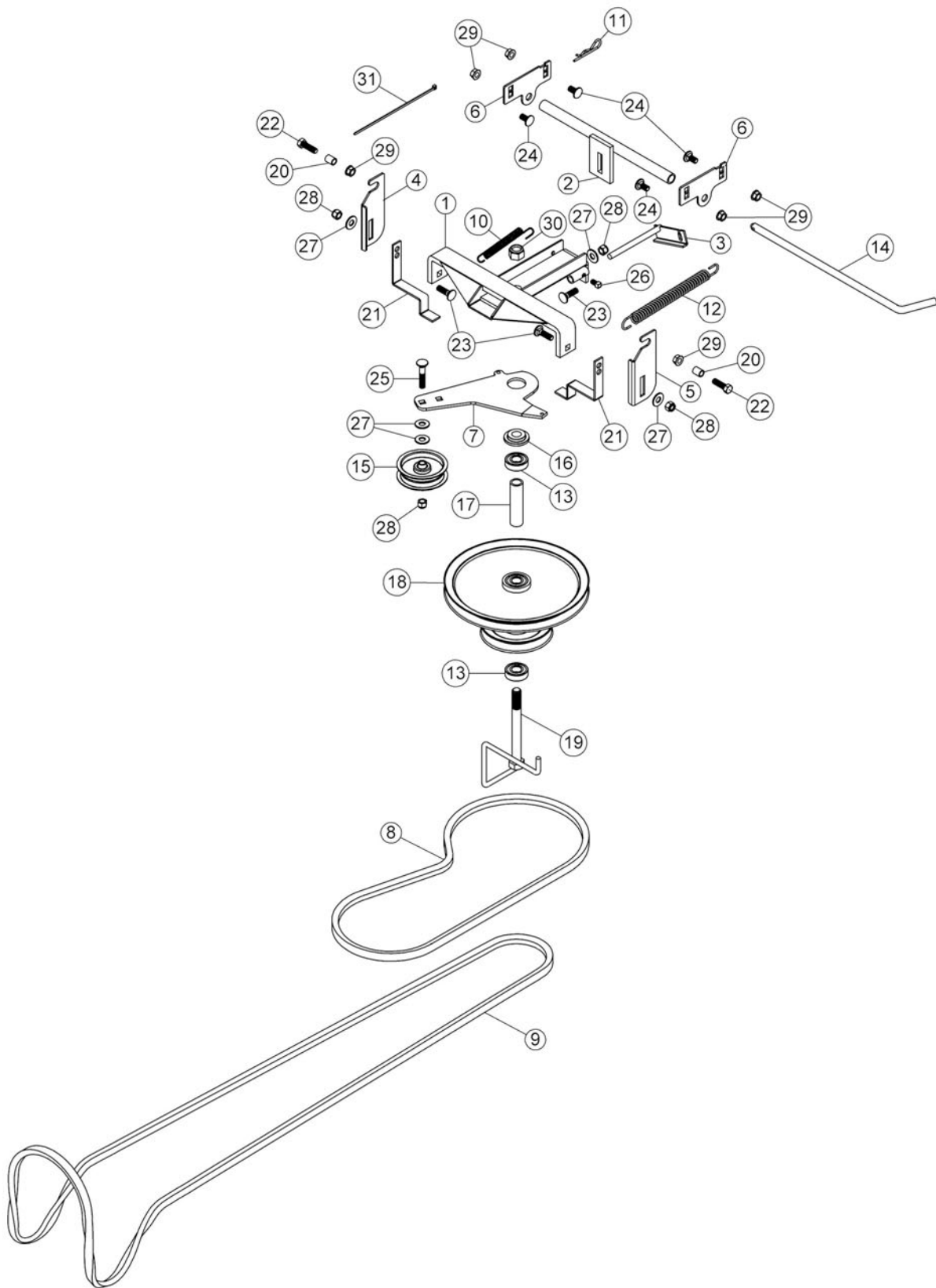
## PARTS LIST

### COMPACT DRIVE MECHANISM 700458-1

| Ref.<br>Réf. | English description                     | Description française                          | Qty.<br>Qté. | Part #<br>Pièce # |
|--------------|-----------------------------------------|------------------------------------------------|--------------|-------------------|
| 1            | Drive frame                             | Châssis d'entraînement                         | 1            | 104838            |
| 2            | Drive frame support                     | Support du châssis d'entraînement              | 1            | 104840            |
| 3            | Adjustment rod                          | Tige d'ajustement                              | 1            | 104841            |
| 4            | Right support                           | Support droit                                  | 1            | 104842            |
| 5            | Left support                            | Support gauche                                 | 1            | 104843            |
| 6            | Support                                 | Support                                        | 2            | 104844            |
| 7            | Idler arm                               | Bras de tension                                | 1            | 104845            |
| 8            | Pin                                     | Goupille                                       | 1            | 102754            |
| 9            | Flat pulley                             | Poulie plate                                   | 1            | 102839            |
| 10           | Double pulley inc. 102736 & 102782      | Poulie double inc. 102736 & 102782             | 1            | 102692            |
| 11           | Ball bearing                            | Roulement à billes                             | 2            | 102736            |
| 12           | Sleeve                                  | Douille                                        | 1            | 102782            |
| 13           | Belt guide                              | Guide-courroie                                 | 1            | 104095            |
| 14           | Flange washer                           | Rondelle à bride                               | 1            | 102969            |
| 15           | Spring 1/2"                             | Ressort 1/2"                                   | 1            | 102003            |
| 16           | Spring                                  | Ressort                                        | 1            | 102304            |
| 17           | Hair pin 3mm                            | Goupille à ressort 3mm                         | 1            | 102617            |
| 18           | V-Belt , B-118                          | Courroie en V , B-118                          | 1            | 104044            |
| 19           | V-Belt , A-52                           | Courroie en V , A-52                           | 1            | 104847            |
| 20           | Sleeve                                  | Douille                                        | 2            | 104874            |
| 21           | Belt guide                              | Guide-courroie                                 | 2            | 105601            |
| 22           | Carriage bolt 3/8" n.c. x 1 1/4"        | Boulon à carrosserie 3/8" n.c. x 1 1/4"        | 3            | O/L               |
| 23           | Carriage bolt 3/8" n.c. x 3/4"          | Boulon à carrosserie 3/8" n.c. x 3/4"          | 4            | O/L               |
| 24           | Carriage bolt 3/8" n.c. x 2"            | Boulon à carrosserie 3/8" n.c. x 2"            | 1            | O/L               |
| 25           | Hex. bolt 3/8" n.c. x 1 1/4"            | Boulon hex. 3/8" n.c. x 1 1/4"                 | 2            | O/L               |
| 26           | Flat washer 7/16" hole                  | Rondelle plate 7/16" trou                      | 5            | O/L               |
| 27           | Nylon insert lock nut 3/8" n.c.         | Écrou à garniture de nylon 3/8" n.c.           | 4            | O/L               |
| 28           | Flange nut 3/8" n.c.                    | Écrou à bride 3/8" n.c.                        | 6            | O/L               |
| 29           | Nylon insert lock nut 5/8" n.c.         | Écrou à garniture de nylon 5/8" n.c.           | 1            | O/L               |
| 30           | Square head set screw 5/16" n.c. x 1/2" | Vis à pression à tête carrée 5/16" n.c. x 1/2" | 1            | O/L               |
| 31           | Tie wrap 8"                             | Attache de nylon 8"                            | 1            | O/L               |

O/L = Obtain Locally

**PARTS BREAKDOWN**  
**NORTHEAST DRIVE MECHANISM 700459-1**



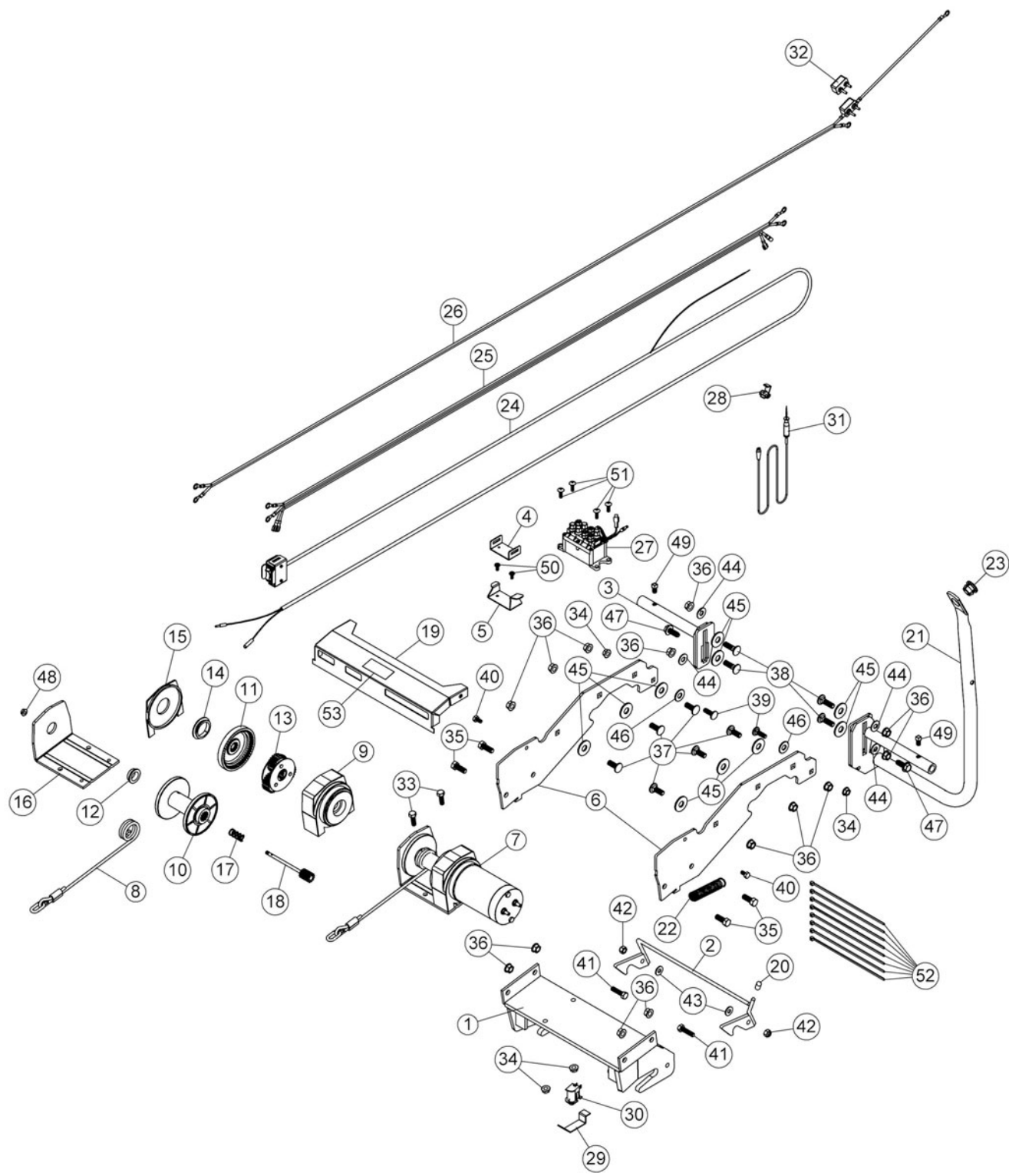
# PARTS LIST

## NORTHEAST DRIVE MECHANISM 700459-1

| Ref.<br>Réf. | English description                     | Description française                          | Qty.<br>Qté. | Part #<br>Pièce # |
|--------------|-----------------------------------------|------------------------------------------------|--------------|-------------------|
| 1            | Drive frame                             | Châssis d'entraînement                         | 1            | 104838            |
| 2            | Drive frame support                     | Support du châssis d'entraînement              | 1            | 104840            |
| 3            | Adjustment rod                          | Tige d'ajustement                              | 1            | 104841            |
| 4            | Right support                           | Support droit                                  | 1            | 104842            |
| 5            | Left support                            | Support gauche                                 | 1            | 104843            |
| 6            | Support                                 | Support                                        | 2            | 104844            |
| 7            | Idler arm                               | Bras de tension                                | 1            | 104845            |
| 8            | V-Belt , A-56                           | Courroie en V , A-56                           | 1            | 104848            |
| 9            | V-Belt , B-124                          | Courroie en V , B-124                          | 1            | 102484            |
| 10           | Spring 1/2"                             | Ressort 1/2"                                   | 1            | 102003            |
| 11           | Hair pin 3mm                            | Goupille à ressort 3mm                         | 1            | 102617            |
| 12           | Spring                                  | Ressort                                        | 1            | 102304            |
| 13           | Ball bearing                            | Roulement à billes                             | 2            | 102736            |
| 14           | Pin                                     | Goupille                                       | 1            | 102754            |
| 15           | Flat pulley                             | Poulie plate                                   | 1            | 102839            |
| 16           | Flange washer                           | Rondelle à bride                               | 1            | 102969            |
| 17           | Sleeve                                  | Douille                                        | 1            | 103035            |
| 18           | Double pulley inc. 102736 & 103035      | Poulie double inc. 102736 & 103035             | 1            | 103040            |
| 19           | Belt guide                              | Guide-courroie                                 | 1            | 104043            |
| 20           | Sleeve                                  | Douille                                        | 2            | 104874            |
| 21           | Belt guide                              | Guide-courroie                                 | 2            | 105601            |
| 22           | Hex. bolt 3/8" n.c. x 1 1/4"            | Boulon hex. 3/8" n.c. x 1 1/4"                 | 2            | O/L               |
| 23           | Carriage bolt 3/8" n.c. x 1 1/4"        | Boulon à carrosserie 3/8" n.c. x 1 1/4"        | 3            | O/L               |
| 24           | Carriage bolt 3/8" n.c. x 3/4"          | Boulon à carrosserie 3/8" n.c. x 3/4"          | 4            | O/L               |
| 25           | Carriage bolt 3/8" n.c. x 2"            | Boulon à carrosserie 3/8" n.c. x 2"            | 1            | O/L               |
| 26           | Square head set screw 5/16" n.c. x 1/2" | Vis à pression à tête carrée 5/16" n.c. x 1/2" | 1            | O/L               |
| 27           | Flat washer 7/16" hole                  | Rondelle plate 7/16" trou                      | 5            | O/L               |
| 28           | Nylon insert lock nut 3/8" n.c.         | Écrou à garniture de nylon 3/8" n.c.           | 4            | O/L               |
| 29           | Flange nut 3/8" n.c.                    | Écrou à bride 3/8" n.c.                        | 6            | O/L               |
| 30           | Nylon insert lock nut 5/8" n.c.         | Écrou à garniture de nylon 5/8" n.c.           | 1            | O/L               |
| 31           | Tie wrap 8"                             | Attache de nylon 8"                            | 1            | O/L               |

O/L = Obtain Locally

**PARTS BREAKDOWN**  
**SUBFRAME 700457-2**



## PARTS LIST

### SUBFRAME 700457-2

| Ref.<br>Réf. | English description  | Description française           | Qty.<br>Qté. | Part #<br>Pièce # |
|--------------|----------------------|---------------------------------|--------------|-------------------|
| 1            | Female hitch         | Attache femelle                 | 1            | 104817            |
| 2            | Latch                | Loquet                          | 1            | 104818            |
| 3            | Cab support          | Support de cabine               | 1            | 104819            |
| 4            | Control base         | Base du contrôle                | 1            | 104820            |
| 5            | Control support      | Support du contrôle             | 1            | 104821            |
| 6            | Support              | Support                         | 2            | 104822            |
| 7            | Winch assembly       | Treuil assemblé                 | 1            | 105247            |
| 8            | Winch cable          | Cable du treuil                 | 1            | 104827            |
| 9            | Reduction box        | Boîte de réduction              | 1            | 105237            |
| 10           | Drum                 | Tambour                         | 1            | 105238            |
| 11           | Inner gear           | Engrenage intérieur             | 1            | 105239            |
| 12           | Bushing              | Coussinet                       | 1            | 105240            |
| 13           | Planetary gear       | Engrenage planétaire            | 1            | 105241            |
| 14           | Drum support bushing | Coussinet du support de tambour | 1            | 105242            |
| 15           | Drum support plate   | Plaque de support du tambour    | 1            | 105243            |
| 16           | Base plate assembly  | Plaque de base assemblée        | 1            | 105244            |
| 17           | Spring               | Ressort                         | 1            | 105245            |
| 18           | Spline shaft         | Arbre à cannelures              | 1            | 105246            |
| 19           | Heat shield          | Pare-chaleur                    | 1            | 104824            |
| 20           | Handgrip             | Poignée                         | 1            | 104825            |
| 21           | Handle support       | Support de manivelle            | 1            | 104826            |
| 22           | Spring               | Ressort                         | 1            | 103566            |
| 23           | Plastic grommet      | Oeillet de plastique            | 1            | 102063            |
| 24           | Winch control        | Contrôle du treuil              | 1            | 104829            |
| 25           | Wire assembly        | Fil assemblé                    | 1            | 105256            |
| 26           | Wire assembly        | Fil assemblé                    | 1            | 104831            |

O/L = Obtain Locally

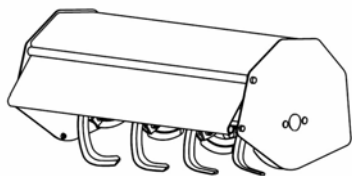
## PARTS LIST

### SUBFRAME 700457-2

| Ref.<br>Réf. | English description                     | Description française                          | Qty.<br>Qté. | Part #<br>Pièce # |
|--------------|-----------------------------------------|------------------------------------------------|--------------|-------------------|
| 27           | Relay                                   | Relais                                         | 1            | 105257            |
| 28           | Instant connector                       | Connecteur instantané                          | 1            | 105152            |
| 29           | Push plate                              | Plaque de poussée                              | 1            | 105150            |
| 30           | Limit switch                            | Commutateur de fin de course                   | 1            | 105136            |
| 31           | Hi/low voltage tester                   | Testeur de haute/basse tension                 | 1            | 105151            |
| 32           | Breaker                                 | Disjoncteur                                    | 1            | 105219            |
| 33           | Hex. bolt 5/16" n.c. x 1"               | Boulon hex. 5/16" n.c. x 1"                    | 2            | O/L               |
| 34           | Flange nut 5/16" n.c.                   | Écrou à bride 5/16" n.c.                       | 4            | O/L               |
| 35           | Hex. bolt 3/8" n.c. x 1"                | Boulon hex. 3/8" n.c. x 1"                     | 4            | O/L               |
| 36           | Flange nut 3/8" n.c.                    | Écrou à bride 3/8" n.c.                        | 14           | O/L               |
| 37           | Carriage bolt 3/8" n.c. x 1"            | Boulon à carrosserie 3/8" n.c. x 1"            | 6            | O/L               |
| 38           | Carriage bolt 3/8" n.c. x 1 1/4"        | Boulon à carrosserie 3/8" n.c. x 1 1/4"        | 4            | O/L               |
| 39           | Carriage bolt 5/16" n.c. x 1"           | Boulon à carrosserie 5/16" n.c. x 1"           | 2            | O/L               |
| 40           | Hex. bolt 1/4" n.c. x 1/2"              | Boulon hex. 1/4" n.c. x 1/2"                   | 2            | O/L               |
| 41           | Hex. bolt 5/16" n.c. x 1 1/4"           | Boulon hex. 5/16" n.c. x 1 1/4"                | 2            | O/L               |
| 42           | Nylon insert lock nut 5/16" n.c.        | Écrou à garniture de nylon 5/16" n.c.          | 2            | O/L               |
| 43           | Flat washer 5/16" hole                  | Rondelle plate 5/16" trou                      | 2            | O/L               |
| 44           | Flat washer 3/8" hole                   | Rondelle plate 3/8" trou                       | 4            | O/L               |
| 45           | Flat washer 1/2" hole                   | Rondelle plate 1/2" trou                       | 10           | O/L               |
| 46           | Flat washer 7/16" hole                  | Rondelle plate 7/16" trou                      | 2            | O/L               |
| 47           | Thread cutting screw 3/8" n.c. x 1"     | Vis à filetage coupante 3/8" n.c. x 1"         | 2            | O/L               |
| 48           | Flange nut M6 x 1.00                    | Écrou à bride M6 x 1.00                        | 1            | O/L               |
| 49           | Square head set screw 5/16" n.c. x 1/2" | Vis à pression à tête carrée 5/16" n.c. x 1/2" | 2            | O/L               |
| 50           | Metal screw pan head #8 x 1/2"          | Vis à métal tête pan #8 x 1/2"                 | 2            | O/L               |
| 51           | Metal screw T.H. #12 x 3/4"             | Vis métallique T.H. #12 x 3/4"                 | 4            | O/L               |
| 52           | Tie wrap 8"                             | Attache de nylon 8"                            | 8            | O/L               |
| 53           | Decal caution hot surfaces              | Décalque attention surfaces chaudes            | 1            | 105133            |

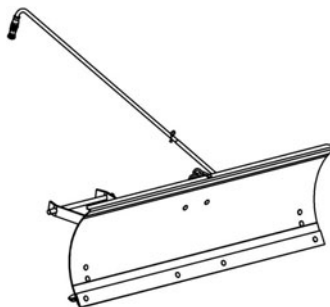
O/L = Obtain Locally

## ATTACHMENTS



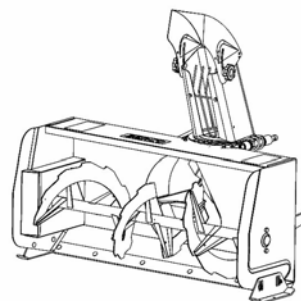
### ROTARY TILLER #700312

Mounts to the rear of lawn, yard & garden tractors 14 to 25 HP. Comes complete with drive & manual lift mechanisms & mounting hardware



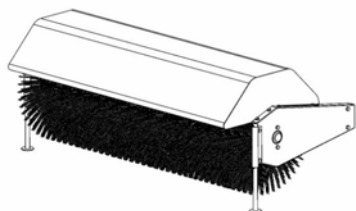
### BLADE #700463

Mounts on the same subframe as the snowblower & rotary broom.



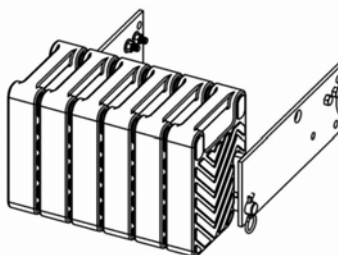
### SNOWBOWER 700465 40" 700474 44" 700478 48"

Mounts on the same subframe as the blade & rotary broom.



### ROTARY BROOM #700380 with nylon brush #700381 with polypropylene brush.

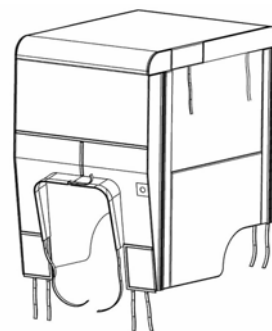
Fits on same subframe as snowblower & utility blade.  
Requires an adaptor.



### COUNTERWIEGT

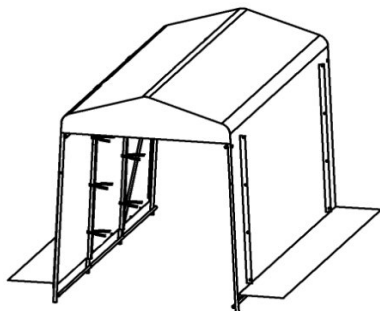
# According to tractor model

Required for safety and traction.  
Counterbalances weight of attachment.



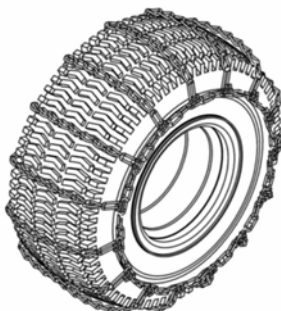
### TRACTOR WINTER CAB #700271 34" #700423 40"

Universal type fits on a wide variety of lawn and garden tractors.



### WINTER SHELTER #700438

Perfect to protect the tractors, A.T.Vs and snowmobiles from the weather.  
Dimensions: 5'W x 12'L x 7' 8"H



### TIRE CHAINS

Two link spacing. Required for traction and safety.  
Pkg. of 2



***WHEN PERFORMANCE  
& DEPENDABILITY  
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